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IN THE CLAIMS:

Amended claims follow.

1.　(Previously Presented) A graphics system including a scene manager, geometric processor means, renderer means, and a far clipping plane, said system comprising means for updating said far clipping plane based on the farthest depth value in a z-pyramid, if the farthest depth value in the z-pyramid is nearer than a depth of the far clipping plane.

2.　(Previously Presented) A graphics system, comprising:
a geometric processor;
a renderer; and
a far clipping plane that is capable of being updated substantially based on a farthest depth value in a z-pyramid, if the farthest depth value in the z-pyramid is nearer than a depth of the far clipping plane.

3.　(Original) The graphics system of claim 2, and further comprising a scene manager.

4.　(Cancelled)

5.　(Cancelled)

6.　(Previously Presented) The graphics system of claim 2, wherein a culling stage is coupled between the geometric processor and the renderer.

7.　(Original) The graphics system of claim 2, wherein the far clipping plane is updated based on the farthest depth value.

8.　(Previously Presented) A method for graphics processing, comprising:
transforming geometry utilizing a geometric processor;

performing a culling operation;

rendering utilizing a renderer; and

updating a far clipping plane as a function of a farthest depth value in a z-pyramid, if the farthest depth value in the z-pyramid is nearer than a depth of the far clipping plane.

9.   (Original) The method of claim 8, wherein a scene manager is in communication with the geometric processor.

10.   (Cancelled)

11.   (Cancelled)

12.   (Previously Presented) The method of claim 8, wherein a culling stage is coupled between the geometric processor and the renderer.

13.   (Previously Presented) A computer program product embodied on a computer readable medium for graphics processing, comprising:

computer code for transforming geometry;

computer code for performing a culling operation;

computer code for rendering; and

computer code for updating a far clipping plane as a function of a farthest depth value in a z-pyramid, if the farthest depth value in the z-pyramid is nearer than a depth of the far clipping plane.

14.   (Original) The computer program product of claim 13, and further comprising computer code for managing a scene.

15.   (Cancelled)

16.   (Previously Presented) The graphics system of claim 2, wherein the updating includes resetting the far clipping plane to the farthest depth value.

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17. (Previously Presented) The graphics system of claim 2, wherein the farthest depth value is included in a tip of the z-pyramid.

18. (Previously Presented) The graphics system of claim 17, wherein the tip of the z-pyramid further includes a coarsest NxN tile in the z-pyramid.

19. (Previously Presented) The graphics system of claim 18, wherein the tip of the z-pyramid further includes additional levels of the z-pyramid.

20. (Previously Presented) The graphics system of claim 17, wherein the tip of the z-pyramid includes a low-resolution z-pyramid with lower resolution than another z-pyramid maintained by a culling stage of the graphics system.

21. (Previously Presented) The graphics system of claim 17, wherein the tip of the z-pyramid includes a low-resolution z-pyramid with lower resolution than another z-pyramid maintained by a hierarchical rendering stage of the graphics system.

22. (Previously Presented) The graphics system of claim 17, wherein depth values of the z-pyramid are encoded.

23. (Previously Presented) The graphics system of claim 22, wherein the depth values of the z-pyramid are encoded for reducing storage requirements thereof.

24. (Previously Presented) The graphics system of claim 2, wherein the updating accelerates a culling of a box since a depth of a nearest corner of the box is farther than the farthest depth value.